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	Sommario/riassunto	It is our great pleasure to welcome you to the Sixth Workshop on Attacks and Solutions in Hardware Security 2022 (ASHES 2022), a post-conference satellite workshop of the ACM Conference on Computer and Communications Security 2022 (CCS 2022). Due to the ongoing pandemic and to provide greater flexibility for attendees in areas where travel was still inconvenient, ASHES was held in hybrid mode this year. ASHES deals with all theoretical and practical aspects of hardware security and welcomes any contributions to this area. Besides being a mainstream platform for disseminating fundamental research on hardware security, the workshop encourages and promotes emerging and new ideas. It includes topics like physical attacks on electronic circuits, secure hardware designs to counter such attacks, lightweight secure designs, post-quantum cryptographic circuits, or emerging topics at the intersection of nanotechnology and hardware security, such as physically unclonable functions (PUFs). The workshop also focusses on recent applications like the internet of things, automotive security, smart homes, or pervasive and wearable computing. ASHES thereby aims at giving researchers and practitioners a unique opportunity to mutually share their perspectives with each other.